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# THE YOUTH'S REALM

A MONTHLY MAGAZINE OF WHOLESOME LITERATURE  
FOR YOUNG AND OLD

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The restoration of the Campanile in Venice has revealed that it was built of Roman, not Venetian, bricks. Moreover, when they were manufactured they were not manipulated like modern bricks, but were formed from slices of clay, as they are found without the natural layers being disturbed. This process resulted in each individual brick being able to support a weight quite four times as great as the modern brick. It is pointed out that the new Campanile may be built today of bricks of the same origin. The bricks examined are of the first century. One bore the impression of a horseshoe, conclusively proving the debated point that horseshoes were then in use.

#### Interesting Indian Relics.

Missouri university has just received as a donation a collection of Indian relics which is perhaps the most valuable in existence. It is made up of relics taken from mounds and old Indian battle fields, mostly in Missouri, and is composed of from 3,000 to 4,000 pieces. There are hammers and axes of every variety, from the rough stage of the earliest known to the polished and perfect specimens of the later tribes. Some of the axes are made of hematite iron ore very highly polished. An interesting group is that of hoes made from stone and notched so as to be fastened to handles. They show very fine workmanship and might be used in hoeing gardens at the present day as easily and effectively as the modern variety. There are knives and sinkers and plummets with holes in the ends by which they were suspended with strings as are the modern kind.

#### More Finds at Knossos.

Mr. Arthur Evans, who is carrying on the excavations on the site of Knossos, in Crete (the so called palace of Minos), has announced some new and important discoveries. On the west of the north court of the palace he has found a double flight of broad steps leading down to the paved area and which apparently served as seats for spectators. He considers this an anticipation of the Greek theater. In an early building near the palace were dug up deposits of bronze basins, beautiful lily and leaf decorations and bronze vases with reliefs. On the northeast of the palace is a house of fine construction running into the hillside, with remains of two stories and three flights of stairs. On a landing was found a tall painted jar with magnificent papyrus decoration, partly in relief and unique in style.

#### Drum Beating Extraordinary.

Probably the most remarkable drummer who ever lived was Jean Henri, the famous tambour major of the Em-

peror Napoleon.

One of his feats was to play on fifteen differently toned drums at the same time in so soft and harmonious a manner that, instead of the deafening uproar that might have been expected, the effect was that of a novel and complete instrument.

Another trick of his was to throw twenty-eight drumsticks into the air in all directions and then catch them in a peculiar manner under his arms and between his legs.

Of his playing it is said that he passed from one drum to the other with such wonderful quickness that the eyes of the spectators could hardly follow the movements of his hands and body.

#### Fashions in Dogtown.



—St. Nicholas.

#### A Writing Puzzle.

See how quickly you can write in figures eleven thousand, eleven hundred and eleven. After you have learned to do it ask some one else to try. Of course the way it should look when written is like this—12,111.

#### To Change a Rose.

A pretty little trick is to change the color of a red rose to almost white and to bring it back again to its own color.

Throw some finely pounded sulphur into a chafing dish or into an earthen pot holding live coals. As the wizard-like flames arise hold the rose in the fumes.

It is best to have one with a long stem so as to keep from inhaling the fumes yourself; also have the room well ventilated.

In the smoke from the sulphur the rose will turn a beautiful pink white. Immerse it in a glass bowl of clear water, and the color may be seen returning to its petals.

#### Limited In Their Knowledge.

Willie stood watching silently while his mother played the piano. Suddenly he looked up and asked:

"Those men that made up all the music, didn't they know their A, B, C's further than G?"

## THE DARNING NEEDLE

### A Fairy Tale

By HANS CHRISTIAN ANDERSEN

THERE was once a darning needle who thought herself so fine that she fancied she must be fit for embroidery. "Hold me tight," she would say to the fingers when they took her up. "Don't let me fall. If you do I shall never be found again, I am so very fine."

"That is your opinion, is it?" said the fingers as they seized her round the body.

"See, I am coming with a train," said the darning needle, drawing a long thread after her; but there was no knot in the thread.

The fingers then placed the point of the needle against the cook's slipper. There was a crack in the upper leath-

er which had to be sewed together.

"What coarse work!" said the darning needle. "I shall never get through. I shall break—I am breaking!" And, sure enough, she broke. "Did I not say so?" said the darning needle. "I know I am too fine for such work as that."

"This needle is quite useless for sewing now," said the fingers, but they still held it fast, and the cook dropped some sealing wax on the needle and fastened her handkerchief with it in front.

"So now I am a breastpin," said the darning needle. "I knew very well I should come to honor some day; merit



"HELLO, HERE'S A FELLOW FOR YOU!"



is sure to rise." And she laughed quietly to herself, for of course no one ever saw a darning needle laugh. And there she sat as proudly as if she were in a state coach and looked all around her. "May I be allowed to ask if you are made of gold?" she inquired of her neighbor, a pin. "You have a very pretty appearance and a curious head, although you are rather small. You must take pains to grow, for it is not every one who has sealing wax dropped upon him." And as she spoke the darning needle drew herself up so proudly that she fell out of the handkerchief right into the sink which the cook was cleaning. "Now I am going on a journey," said the needle as she floated away with the dirty water. "I do hope I shall not be lost." But she really was lost in a gutter. "I am too fine for this world," said the darning needle as she lay in the gutter, "but I know who I am, and that is always some comfort." So the darning needle kept up her proud behavior and did not lose her good humor. Then there floated over her all sorts of things—chips and straws and pieces of old newspaper. "See how they sail," said the darning needle. "They do not know what is under them. I am here, and here I shall stick. See, there goes a chip, thinking of nothing in the world but himself—only a chip! There's a straw going by now; how he turns and twists about! Don't be thinking too much of yourself or you may chance to run against a stone. There swims a piece of newspaper; what is written upon it has been forgotten long ago, and yet it gives itself airs. I sit here patiently and quietly. I know who I am, so I shall not move."

One day something lying close to the darning needle glittered so splendidly that she thought it was a diamond, yet it was only a piece of broken bottle. The darning needle spoke to it because it sparkled and represented herself as a breastpin. "I suppose you are really a diamond?" she said.

"Why, yes; something of the kind," he replied. And so each believed the other to be very valuable, and then they began to talk about the world and the conceited people in it.

"I have been in a lady's workbox," said the darning needle. "And this lady was the cook. She had on each hand five fingers, and anything so conceited as these fingers I have never seen, and yet they were only employed to take me out of the box and put me back again."

"Were they not high born?"

"High born!" said the darning needle. "No, indeed, but so haughty. They were five brothers, all born fingers. They kept very proudly together, though they were of different lengths. The one who stood first in the rank was named the thumb. He was short and thick and had only one joint in his back and could therefore make but one bow. But he said that if he were cut off from a man's hand that man would be unfit for a soldier. Sweet Tooth, his neighbor, dipped himself into the sweet or sour, pointed to the sun and moon and formed the letters when the fingers wrote. Longman, the middle finger, looked over the heads of all the others. Gold Band, the next finger, wore a golden circle round his waist. And little Playman did nothing at all and seemed proud of it. They were boasters, and boasters they will remain, and therefore I left them."

"And now we sit here and glitter," said the piece of broken bottle.

At the same moment more water streamed into the gutter, so that it overflowed, and the piece of bottle was carried away.

"So he is promoted," said the darning needle, "while I remain here. I am too fine, but that is my pride, and what do I care?" And so she sat there

in her pride and had many such thoughts as these: "I could almost fancy that I came from a sunbeam, I am so fine. It seems as if the sunbeams were always looking for me under the water. Ah, I am so fine that even my mother cannot find me! Had I still my old eye which was broken off I believe I should weep; but no, I would not do that; it is not genteel to cry."

One day a couple of street boys were paddling in the gutter, for they sometimes found old nails, farthings and other treasures. It was dirty work, but they took great pleasure in it. "Hello!" cried one as he pricked himself with a darning needle. "Here's a fellow for you!"

"I am not a fellow; I am a young lady," said the darning needle. But no one heard her.

The sealing wax had come off, and she was quite black. But black makes a person look slender, so she thought herself even finer than before.

"Here comes an eggshell sailing along," said one of the boys; so they stuck the darning needle in the eggshell.

"White walls, and I am black myself," said the darning needle. "That looks well. Now I can be seen, but I hope I shall not be seasick, or I shall break again." She was not seasick, and she did not break. "It is a good thing against seasickness to have a steel stomach and not to forget one's own importance. Now my seasickness has passed. Delicate people can bear a great deal."

Crack went the eggshell as a wagon passed over it. "Good heavens, how it crushes!" said the darning needle. "I shall be sick now. I am breaking!" But she did not break, though the wagon went over her as she lay at full length. And there let her lie.

#### He's My Brother.

A gentleman once met a little girl carrying in her arms a sturdy little baby brother and inquired if the burden was not somewhat heavy. "Why, he's my brother; he's not heavy," was the simple but beautiful reply. How love lightens burdens, and how much easier all life when lived in the spirit of love!

## A RING TRICK

A boy of our acquaintance astonished his host and the guests at a party the other night by asking that a bowl of water be brought into the parlor.

"You may have the bowl of water, of course," said the host, "but may I ask what you are going to do with it?"

"I want to show you a trick," answered the boy. "I promise not to spill the water or muss up anything; so you needn't be afraid to let me try it."

"Now," he said, "I want to borrow a finger ring, and I'm going to put it into that bowl and then take it out with my hand without getting my hand wet."

"Oh, you can't do it!" cried a dozen of his companions. "Whoever heard of putting your hand into water without getting it wet?"

"Of course I didn't expect you to believe me," said the young experimenter. "But wait, and I'll show you a thing or two."

One of the girls handed him a ring, and, having put it into the bowl, he stood back so that they might all see it. Then he took a little paper package from his pocket and emptied from it a powder, distributing it over the surface of the water.

"What's that?" asked his host.

"Oh, that's my patent antiwet," an-

swered the boy. "Now watch me. I'm going to take that ring out with my hand, and if the hand gets at all wet I promise to drink the water, ring, powder and all."

And he did take the ring out with his hand, and he did not get his hand wet.

Of course you want to know how he did it so you may astonish some of your friends. The powder that he threw on the water was lycopodium, and as he plunged his hand into the water the lycopodium covered it like a waterproof glove, for that substance and water have no affinity for each other. Try it.—Boston Traveler.

#### A Young Cyclist.

Little George Montz of Reading, Pa., is the champion child cyclist of the country. Although but five years old, he has won many prizes for swift riding and recently broke his own record of 5m. 2s. by riding a mile in 4m. 30s. This tiny morsel of humanity began



GEORGE MONTZ ON HIS WHEEL.

riding when he was only twenty months old, his first wheel being in the form of a velocipede.

Five medals hang from this youthful champion's coat as he stands ready for a race, and he is justly proud of the honors so earnestly tried for.

This midget champion measures only thirty-one inches from the crown of his curly head to the sole of his canvas shoes, and he races with fellows twice his size. He is a well proportioned little man, and his muscles are developed by much exercise. In his den at home there swings a punching bag, which is used daily. Dumb bells and Indian clubs are swung night and morning by this young athlete, and he practices foot racing when the weather is fine.

#### Can Do It if He Will Try.

A young man writes to us wanting to know whether it is possible for him to work his own way through one of our agricultural colleges. It is if he is made of the right sort of stuff, and it has to be pretty good stuff. Most of these colleges are so managed that all the work a student is able or willing to do upon the college farm is given him at a liberal rate of compensation. A young man should get together a fair outfit of clothes and not less than \$100, however, before tackling this job, for he could hardly expect to do justice to his studies and spare more time for labor than would suffice to pay for his board and incidental expenses. Then if he should be sick his nest egg would come in handy. An education thus dug out by hard knocks, self denial and perseverance is always worth more to the boy than when absorbed at the expense of sight drafts upon the governor at home. A course of study attempted on these lines means no luxuries, mighty little athletics, no girl business and quite likely celluloid collars and ten dollar dress and Sunday suit. Moses put in forty years at this sort of work in the wil-

derness to fit him to lead his people, and any young man who wants to be somebody and do something can afford to play the Moses act for three years. The very best training for a young man is to want a whole lot of things real bad and not be able to get them. Then after awhile he will learn to want something worth having and will go for it and get it.—Exchange.

#### A Seeming Contradiction.

"It's queer, I admit," said Harold to May, "But I'm telling you what I have seen. Ask the gardener, William! A minute, I say! Aren't blackberries red when they're green?"

—St. Nicholas.

#### An Animal Story For Little Folks

## The Prosperous Bugs

"Good morning, Higgy," said the haggiebug to the higgiebug as they met on the street the other day. "How are you?"

"Very fine, I thank you, Haggy," replied the higgiebug. "How are you?"

"Oh, I am always well," answered the haggiebug, "except now, you know, my business is brisk and I am just a wee bit overworked."

"Ah!" exclaimed the higgiebug. "Lots of work? That's good. Let me congratulate you. I know just how it is, for, you see, my business is brisk, too, and I am afraid sometimes I will not



"I'M A DOCTOR," DECLARED THE HIGGLEBUG.

be able to attend to it all. By the way, Haggy, what business are you in now?"

"I'm a barber," answered the haggiebug.

"A barber!" exclaimed the higgiebug. "And what do you do as a barber?"

"Why, mercy, man, haven't you heard?" cried the haggiebug in surprise.

"No," said the higgiebug. "What is it?"

"Well, the caterpillars have adopted the new style of having their heads bald, and my business is to shave the caterpillars. There are lots of them, and it keeps me busy day and night doing the work."

"You must be making a great deal of money," said the higgiebug.

"Yes, indeed," replied the haggiebug. "By the way, what business are you in?"

"I'm a doctor," declared the higgiebug.

"A doctor!" exclaimed the haggiebug.

"And what do you do as a doctor?"

"My, my, my! Don't you know?" cried the higgiebug in surprise.

"No," said the haggiebug. "What is it?"

"Well, the grasshoppers have adopted the new style of wearing long whiskers, and I furnish them with a face powder to bring out their beards. They use a great deal of the powder, and I am kept busy night and day mixing it for them."

"I suppose you will soon be rich," said the haggiebug.

"I hope so," responded the higgiebug.

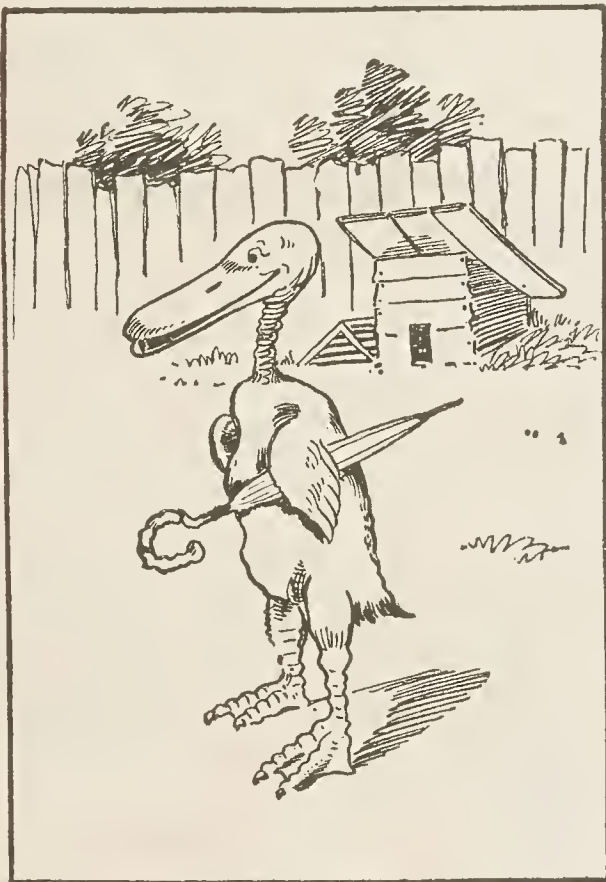


"Well, goodbye, Higgy," said the haglebug as he passed on down the street. "Goodby, Haggy," answered the haglebug.—St. Louis Post-Dispatch.

### An Animal Story For Little Folks

## The Funny Duckling

There was once a funny little duckling who was always going about doing something curious that made everybody laugh at him. Somebody told him that if he did not want to get wet when it rained he had better buy himself an umbrella. So off Mr. Duckling went to the umbrella store and bought him-



HE CARRIED THAT UMBRELLA AROUND. self an umbrella. He stuck it under his arm and walked down the road just as proud as ever he could be.

It made them all laugh louder than before, for none of them could see what use a duckling would ever have for an umbrella. But the duckling did not know any better. He carried that umbrella around under his arm day after day, hoping it would rain.

Well, finally one day it did rain. It rained in sheets, and the wind blew as it had never blown before. Mr. Duckling went out into the road, and, of course, everybody was there to see.

Up went the umbrella, and up went Mr. Duckling with it, for a big gust of wind just lifted them both in the air and swept them over the heads of the spectators and into the top of a tree about a mile away.

It took the little duckling half a day to untangle himself from the limbs of the tree and get down to the ground.

Moral.—Do not hamper yourself with things that are unnecessary.—Chicago Tribune.

## The Gentleman Boar

There was once a wild boar who was dissatisfied with himself because the people so often mistook him for a pig.

"I am not a pig, though I do look like one a little bit," he said to himself, "and I do not want people to think that I am a pig. But what am I to do? I can't run around all the time crying, 'I'm no pig; I'm a boar!'"

"I know just what I'll do," said he. "I'll dress myself up and be a gentleman, and then people will not only not call me a pig, but they will see that I am a fine fellow."

So away he went to a hat store and bought himself a black hat, and at the tobacco shop he bought a pipe and a bag of tobacco. He put on his hat, and he stuck the pipe in his mouth,

and, just as proud as a peacock, he sat down on a corner and waited for people to come along and admire him.

But they came without admiring him. "What on earth is that thing?" they asked as they passed. And, strange to say, nobody answered that that was a



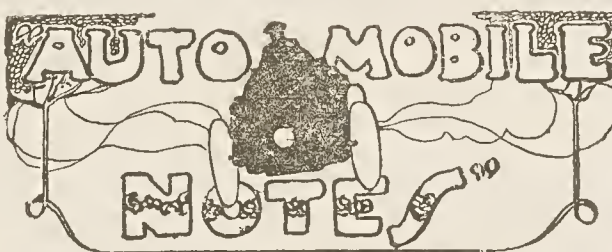
HE SAT DOWN ON A CORNER.

gentleman. Most of them said that he was a hog, and the others said he had no sense. So, after awhile, Mr. Wild Boar's grin turned to a pout, and finally he grew as mad as ever he could get.

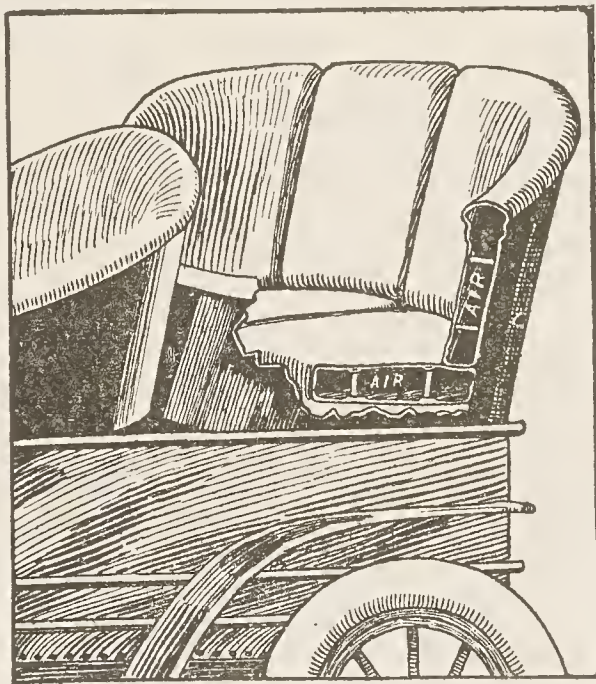
But the worst came when the little animals gathered at a safe distance and laughed at him and threw stones over his way. The boar could endure it no longer. He slipped away into the woods, threw his tobacco in the creek and smashed his pipe into a thousand tiny pieces on a great big stone. Then he put a heavy stone in his hat and sank it to the bottom of the spring.

"I'll never try such a foolish trick as that again," he wisely said.

Moral.—Fine clothes and tobacco smoke don't make the gentleman.—Chicago Tribune.



Air cushions are now manufactured which are calculated to add as much to the comfort of the individual as pneumatic tires have to the smooth running of a machine, says the Scientific American. The cushions shown in the illustration are made of cotton duck coated with rubber sufficiently thick to make the fabric air tight. Stays



AIR CUSHION FOR AUTOMOBILES.

are placed on the inside at regular intervals for the purpose of holding the cushion in proper shape when inflated.

The cushions have outer coverings of corduroy, leather, duck, etc., according to fancy. Their backs, sides and seats are smooth and have no ridges or buttons to render them uncomfortable. Having no hollows, they do not hold the dust and being made of rubber are

proof against dampness.

### Automobile Stopping Device.

Charles A. Lieb of New York has invented and patented a guard for automobiles, which when struck in collision or by an outsider automatically shuts off the power, be it electricity, gasoline or steam, and puts on a hand brake on the rear wheel. Mr. Lieb's creation consists, says the New York Herald, of a guard or fender of bicycle tubing projecting in front of the automobile from a point on a line with the floor of the body, having its sides curving downward. The guard is kept up by a spring. When struck in collision or knocked down by a policeman's club or other weapon, a crank arm is reversed. Rods connect this crank arm with the motor and also with a hand brake on the rear axle. The reversal of the crank shuts off power from the former and applies the latter.

### Our Automobile Consumption.

There are about 30,000 automobiles in use in the United States.

### A POWERFUL WHEEL.

Inventor Would Use Radium to Propel New Air Ship to Mars.

The Electrical World publishes the following remarkable communication:

The writer is a poor inventor who has worked for years on a wheel, and only recent discoveries in the scientific invention of today have enabled him to get power out of it to run a special kind of motor. It is no humbug, you can rest assured, but I cannot give away the secret of the detail parts unless some other inventor gobbles it up and claims it, with some little improvement, as his own idea. It is a magnetic wheel that will run of itself and also by wind at the same time.

This wheel would run for years or until it clogged up with oil. It would have power enough to run two fan wheels to propel a twenty foot airship at the rate of about 100 miles an hour, perhaps more, but not against the wind. The air ship would be the shape of a sunfish almost and feather to the wind and point upward. It would be built in six sections of aluminium, glass and mica.

The wheel has a hollow rim and spokes, has drop magnets inside and a wrought iron ball; also a small quantity of radium. The dropping and raising of the magnets cause the wheel to revolve (we do not propose to give the secret details). The spokes of the wheel are feathered with a wind fan that will cause the wheel to revolve also, but we do not depend on that, but on the magnets and the ball and the radium. Once set, the wheel has got to revolve and in turn gives off electro magnetic power to two small motors that run the fan wheels.

This wheel was first invented in 1876, but had no power until two inventions recently discovered came out. Now the power is at hand. Radium is one that makes it work and keeps it working over and over again. Once on the move, the wheel cannot stop of itself. This wheel would send a twenty foot air ship to another planet. It can be done now.

### Our Coffee Imports.

In round figures not less than a billion pounds of coffee bean are brought to this country each year for domestic consumption. Since 1894 the imports have more than doubled, and the increased consumption per capita has been more than four pounds, the present average being about fourteen and a half pounds for every man, woman and child. A fair average retail price is 20 cents, which makes the amount spent each year for the breakfast beverage rather more than \$200,000,000.

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## The Youth's Realm

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A. Bullard & Co., 446 Tremont St., Boston

**much importance to American paint manufacturers and dealers has sprung into existence near Malaga, Spain. A rich vein of oxide of iron ore, known as hematite, valuable chiefly for the manufacture of red paint for structural ironwork, has been developed. The production of hematite in the United States has been falling off in spite of an increasing demand.**

### Progress In Tanning.

The ancient tanner paid an expert high wages to guess at the contents of his hides when sold by measure. Today an unskilled workman hands the irregular shaped pieces to a little machine that looks something like a table with a double top, which, quicker than the mind of the expert could guess it, reckons with exactness the square contents in both the metric and standard systems.

### Home of Peppermint Oil.

More than nine-tenths of the 300,000 pounds of peppermint oil annually consumed by the world is produced within ninety miles of Kalamazoo, Mich.

## WORTH-REPEATING SERIES NUMBER 1.

### PECK'S BAD BOY

Revised, with the objectionable parts omitted.

(To Be Continued.)

### CHAPTER XXX. FARM EXPERIENCES.

"Want to buy any cabbages?" said the bad boy to the grocery man as he stopped at the door of the grocery dressed in a blue wamus, his breeches tucked in his boots and an old hat on his head with a hole that let out his hair through the top. He had got out of a Democrat wagon and was holding the lines hitched to a horse about 40 years old that leaned against the hitching post to rest. "Only a shilling apiece."

"Oh, go 'way," said the grocery man. "I only pay 8 cents apiece." And then he looked at the boy and said: "Hello, Hennery, is that you? I have missed you all this week, and now you come on to me sudden, disguised as a granger. What does this all mean?"

"It means that I have been the victim of as vile a conspiracy as ever was known since Caesar was stabbed and Marc Antony orated over his prostrate corpse in the Roman forum to an audience of supes and scene shifters," and the boy dropped the lines on the sidewalk, said, "Whoa, gol darn you!" to the horse that was asleep, wiped his boots on the grass in front of the store and came in and seated himself on the old half bushel. "There, this seems like home again."

"What's the row—who has been playing it on you?" And the grocery man smelled a sharp trade in cabbages as well as other smells peculiar to the farm.

"Well, I'll tell you. Lately our folks have been constantly talking of the independent life of the farmer and how easy it is, and how they would like it if I would learn to be a farmer. They said there was nothing like it, and several of the neighbors joined in and said I had the natural ability to be one of the most successful farmers in the state. They all drew pictures of the fun it was to work on a farm, where you could get your work done and take your fishpole and go off and catch fish, or a gun and go out and kill game, and how you could ride horses and pitch hay and smell the sweet perfume and go to husking bees and dances and everything, and they got me all worked up so I wanted to go to work

on a farm.

"Then an old deacon that belongs to our church, who runs a farm about eight miles out of town, he came on the scene and said he wanted a boy and if I would go out and work for him he would be easy on me because he knew my folks and we belonged to the same church. I can see it now. It was all a put up job on me, just like they play three card monte on a fresh stranger. I was took in. By gosh, I have been out there a week, and here's what there is left of me. The only way I got a chance to come to town was to tell the farmer I could sell cabbages to you for a shilling apiece. I knew you sold them for 15 cents, and I thought that you would give a shilling. So the farmer said he would pay me my wages in cabbages at a shilling apiece and only charge me \$1 for the horse and wagon to bring them in. So you only pay 3 cents. Here are 30 cabbages, which will come to 90 cents. I pay \$1 for the horse, and when I get back to the farm I owe the farmer 10 cents, besides working a week for nothing. Oh, it is all right. I don't kick, but this ends farming for Hennery. I went out to the farm Sunday evening with the deacon and his wife, and they couldn't talk too much about the nice time we would have and the fun, but the deacon changed more than 40 degrees in five minutes after we got to the farm. He jumped out of the wagon and pulled off his coat and let his wife climb out over the wheel and yelled to the hired girl to bring out the milk pail and told me to fly around and unharness the horse and throw down a lot of hay for the work animals, and then told me to run down to the pasture and drive up a lot of cows.

"The pasture was half a mile away, and the cows were scattered around in the woods, and the mosquitoes were thick, and I got all covered with mud and burrs and stung with thistles, and when I got the cattle near to the house the old deacon yelled to me that I was slower than molasses in the winter, and then I took a club and tried to hurry the cows, and he yelled at me to stop hurrying 'cause I would retard the flow of milk. By gosh, I was mad! I asked for a mosquito bar to put over me next time I went after the cows, and the people all laughed at me, and when I sat down on the fence to scrape the mud off my Sunday pants the deacon yelled like he does in the revival, only he said: 'Come, come! Procrastination is the thief of time. You get up and hump yourself and go and feed the pigs.' He was so mean that I could not help throwing a burdock burr against the side of the cow he was milking, and it struck her right in the flank on the other side from where the deacon was.

"Well, you'd 'a' died to see the cow jump up and blat. All four of her feet were off the ground at a time, and I guess most of them hit the deacon on his Sunday vest, and the rest hit the milk pail, and the cow backed against the fence and bellered, and the deacon was all covered with milk and cow hair, and he got up and throwed the three legged stool at the cow and hit her on the horn, and it glanced off and hit me on the pants just as I went over the fence to feed the pigs. I didn't know a deacon could talk so sassy at a cow and come so near swearing without actually saying words. Well, I lugged swill until I was homesick to my stomach, and then I had to clean off horses and go to the neighbors about a mile away to borry a lot of rakes to use the next day. I was so tired I almost cried, and then I had to draw two barrels of water with a well bucket to cleanse for washing the next day, and by that time I wanted to die.

"It was most 9 o'clock, and I began to think about supper, when the deacon said all they had was bread and milk for supper Sunday night, and I rasseled with a tin basin of skimmilk and some old back number bread and wanted to go to bed.

"Well, I got through the colic and was just going to sleep when the deacon yelled for me to get up and hustle down and get to work doing chores. I looked at the clock, and it was just 3 o'clock in the morning, just the time Pa comes home and goes to bed in town when he is running a political campaign. Well, sir, I had to jump from one thing to an-



"Nothing to make my last hours pleasant."

other from 3 o'clock in the morning till 9 at night, pitching hay, driving reaper, raking and binding, shocking wheat, hoeing corn and everything, and I never got a kind word. I spoiled my clothes, and I think another week would make a virate of me.

Now, you take these cabbages and give me 90 cents, and I will go home and borry 10 cents to make up the dollar and send my chum back with the horse and wagon and my resignation. I was not cut out for a farmer. Talk about fishing—the only fish I saw was a salt whitefish we had for breakfast one morning, which was salted by Noah in the ark," and while the grocery man was unloading the cabbages the boy went off to look for his chum, and later the two boys were seen driving off to the farm with two fishing poles sticking out of the hind end of the wagon.

## QUEER MR. BLINDERS

[Original.]

"Blinders, what a beautiful beard you wear."

"Glad you like it," said Blinders, lighting up. "I don't value it very highly myself."

"What 'll you take for it?"

"Take for it? Why, what could it benefit any one but me?"

"That isn't the question. You say you don't value it. I would like to buy it."

"When would you want it?"

"Buyer thirty—which, being interpreted, means any time within thirty days."

"What 'll you give?"

"A hundred dollars."

"By Jove, that's a good sum!" And Blinders began to think what he could do with a hundred dollars.

"Oh, I see your game!" he said presently. "You'll call for it by sections. That would leave me in a beautiful fix, wouldn't it?"

"I'll call for it all at once."

After rummaging his brain to find a catch somewhere Blinders gave me a bill of sale for his beard—to be called for anywhere within thirty days or forfeit double the price.

Now there was a reason for all this which Blinders did not understand. He was the wealthiest bachelor in the town as well as the stingiest. One day a number of ladies came to me and asked me if I could suggest a plan by which they could get a donation out of him for a benevolent enterprise. I told them I would think it over.

Blinders was a pushing fellow not only in business, but socially. He was a self made man, which was to his credit, but he didn't know what the word modesty meant. His assurance in making his way into "society" was

only equaled by his embarrassment whenever he blundered into a breach of etiquette. He was in constant terror lest he should appear in some unfortunate position.

The ladies were getting up a ball for the benefit of their charity and had appointed me one of the floor managers. I wrote requesting that my name be dropped and Blinders' put on in its stead. This was done, and Blinders was so delighted that he at once sent the ladies a check for \$10.

"You are very bright," said the president of the society to me. "It is a wonder that we didn't think of that ourselves."

"Possibly Mr. Blinders' donation may be far more worthy of his social elevation," I replied, "than a niggardly \$10. Let us wait."

On the night of the ball Blinders was on hand resplendent in evening dress, wearing the lowest cut white waistcoat, straw colored gloves and a pale green necktie that some wag had told him was the very latest thing for balls. No Indian chief decorated with stovepipe hat and soldier coat had ever borne himself more proudly. I watched him till his self satisfaction had reached its height; then, putting on my hat and coat, I went out. Ten minutes later an attendant handed him a note from me written from a neighboring barber shop demanding his beard.

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There was a look of extreme anxiety on his face as he came in; but, attempting to master it, he came up to me with a laugh and, slapping me familiarly on the back, said confidently:

"It's very cute of you, old fellow, awfully cute. Of course you don't want your property now. You want a bottle of champagne, and you shall have it, besides a good supper after the ball. And now I must hurry back. The president has done me the honor to say she can't get on without me."

"It won't take long. Sit down in the chair."

"You really don't mean that you are in earnest? Think how I would look going back clean shaved."

"You don't need to lose your beard. There is the forfeit, you know."

"Good gracious, man, the forfeit is \$200!"

"It only rests with you, Blinders," I said resolutely, "to give me your beard or pay the forfeit."

He looked into my eye and saw that I was not to be cajoled or browbeaten or in any way deprived of my advantage. The alternative flashed through his mind, and his love of money for a time prevailed. He determined to remain away from the ball for the rest of the evening.

"All right," I said. "What excuse will you give?"

"Suddenly taken ill."

I smiled.

"I suppose you'll knock down that story and"—

"The whole thing will be all over the ballroom in ten minutes."

He turned pale.

"What 'll you take to settle?" he asked.

"Will Blinders, I don't want your beard or your money. Write a check payable to the president of the society for \$200, and I'll call it square. You can then finish the evening in a position for which you are so well fitted without so sudden a transition, and your liberality will be sounded by every one. As for me, I'll keep the affair mum."

"I haven't a check with me."

"I have." And I pulled a blank check from my pocketbook.

Blinders and I returned to the ballroom arm in arm and made straight for the president.

"Mr. Blinders' modesty," I said to her, "is as great as his generosity. He desires through me to present your society with a check for \$200."

I handed her the check. Casting a side glance at Blinders, I was astonished to see on his face a look of conscious pride. Had he voluntarily donated a hundred times the amount he couldn't have been more pompous.

Surely there are singular people in the world!

BRUCE PARKER.

them began.

The other rats were then named Bismarck, Gladstone and Li Hung Chang. Each has an apartment in a cage. At the boy's call each rat will respond to his name, coming forth from the cage with a flag of the nation represented. They form in line and go through military evolutions in sharp time. Then a battle follows. Each rat is armed with a stick, and at the command of Scipio, who acts as referee, they fight sham battles.

Bismarck first engages Gladstone until the latter receives a thump on the head and falls as if dead. Then Scipio battles with Li Hung Chang until the latter runs.

#### Two College Boys.

Two boys left home with just money enough to take them through college, after which they must depend entirely upon their own efforts. They attacked the collegiate problems successfully, passed the graduation, received their diplomas from the faculty, also commendatory letters to a large shipbuilding firm with which they desired employment. Ushered into the waiting room of the head of the firm, the first was given an audience. He presented his letters.

"What can you do?" asked the man of millions.

"I should like some sort of a clerkship."

"Well, sir, I will take your name and address and should we have anything of the kind open will correspond with you."

As he passed out he remarked to his waiting companion, "You can go in and leave your address."

The other presented himself and his papers.

"What can you do?" was asked.

"I can do anything that a green hand can do, sir," was the reply.

The magnate touched a bell which called a superintendent.

"Have you anything to put a man to work at?"

"We want a man to sort scrap iron," replied the superintendent.

And the college graduate went to sorting scrap iron.

One week passed, and the president, meeting the superintendent, asked,

"How is the new man getting on?"

"Oh," said the boss, "he did his work so well and never watched the clock that I put him over the gang."

In one year this man had reached the head of a department and an advisory position with the management at a salary represented by four figures, while his whilom companion was "clerk" in a livery stable, washing harness and carriages.—Normal Instructor.

#### FOOD AND OLD AGE.

Some Advice to the Veterans in the Battle of Life.

According to the general opinion of physiologists, old people should live on as light a diet as possible.

The ailments that come with length of days are largely due to overeating. More food is taken than the eliminating organs can get rid of, and a reduction in the amount should always be made as maturity glides into senility. If an old man has a good appetite and can digest well, let him have his usual three light meals a day; but, as a rule, the healthiest old people are the spare eaters.

Brain workers, says a writer in the Philadelphia North American, can enjoy a fair degree of health by living on light food which does not require much force to digest or much muscular activity to assimilate. On a diet of well made bread in variety, vegetables and fruits, with a fair quantity of eggs and milk, very little animal food, and without alcoholic stimulants, many disor-

ders of old age may be avoided and life prolonged.

Indigestion denotes not a disease, but an admonition. It means that the individual thus admonished is not taking appropriate food. For inactive and aged persons three-fourths of the nutrient matters consumed should be derived from vegetable, cereal and milk produce and one-fourth only from the animal kingdom, and many men of sixty and upward corroborate this statement.

Americans in general have not yet begun to realize all these things, but they are reaping the bitter results of their failure to heed repeated warnings. The "breakfast food" advocates are looked upon as "cranks," but there is abundant evidence to prove that they are right.

#### Little Pud and the Bumblebee.

A round little lad stuck his nose one day In a hollyhock big and red That leaned o'er the walk in inviting way Just over his curly brown head. He stood on his toes and poked in his nose To take of its sweets a good smell, But quickly he stopped and on the walk dropped, With a lusty and agonized yell.

Forth from the flower a big bumblebee Came booming and buzzing like mad; Resentful and angry most plainly was he At Pud Boy, the round little lad. To have a fat boy poke in and annoy A bee at a feast, I suppose, Arouses his ire, and so, all afire, He stings the fat boy on the nose.

And little Pud Boy, when his hurt was well

And gone was the terrible pain, Remembered and into a flower's cell His nose never ventured again. In fear he would flee at the sight of a bee As fast as he could from the spot, And then he would say in very wise way, "At bug's little foot's is too hot!"

—Frank B. Welch in Brooklyn Eagle.

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# THE STAMP REALM

A REGULAR MONTHLY SUPPLEMENT, CONTAINING THE LATEST STAMP NEWS OF THE WORLD

## NEWS AND COMMENT.

**D**UE to events which tend to keep alive an interest in stamp collecting at certain times of the year when we would most expect to find that interest slightly on the decrease, the terms "stamp season" and "dullness of the summer months" have less significance to-day than they did some years ago. This year it is the new issue of U.S. stamps, particularly, which gives an impetus to the pursuit likely to carry it through the hot summer months with flying

colors. Then in August come, in different parts of the country, the society conventions which more or less interest the great body of collectors, whether members or not. Each year it is becoming more difficult to define what is actually meant by the term "stamp season," unless we concede that the stamp season lasts the whole year round.

Regarding the new issue of U. S. stamps, we hear that the 2c value is soon to be withdrawn and a stamp of better design put in its place. New designs are now being submitted to the department for approval. The talk

regarding a commemorative issue for the St. Louis Fair seems to be crystallizing into more definite information, according to the Washington correspondent of Mekeels Weekly who states that the issue is a settled fact, that there will be but 3 or 4 values, and that there will be but one color for each stamp, the bi-colored stamp being considered too expensive.

The United States is not the only country to first issue a stamp, then feel dissatisfied with it and change the design. The same experiment is going on almost continuously in some part of the world. It is one of the excuses for so many new issues to bother the life of the chronicler and maker of the catalogues. The last important country to make an early change is France. Already three values (10c, 15c and 25c) of the "sower" type have appeared to take the place of these values of the former issue which many a collector has not yet had a chance to see.

Several collectors are discussing in the stamp papers the advisability of the adoption of a characteristic stamp button to be worn by all philatelists. If the scheme meets with general approval it is probable that when the

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First column of prices is for new stamps, 2nd for used. When two or more stamps are listed on one line the price to the right is for each stamp.

### MACAU Continued

8a blue, 12a rose, 13a purple, 16a ble 15  
15a on 24a, 20a on 31a 25  
1/2a gry, 1a org 2 24 bwn, 31 prpl 35  
15 olive, 20 bn 18 47 ble, 78a ble



Newspaper, '93; 2 1/2 bn 2 4  
2 1/2a on 2 1/2r brown 3 3  
1892; "Journals" surcharged on 1887 issue;  
2 1/2r on 10r green 8 5  
2 1/2r on 40r chocolate 8 5  
2 1/2r on 80r grey 10 8

Unpaid; 1903; 1/2, 1, 2, 4, 5, 8, 12, 20, 40, 50a, 1P

### MADAGASCAR (British)

1884-6; violet; 1p, 2p, 6, 1S, 5.00  
3p, 4p, 1S6p, 2S, 1p on 1S, 4 1/2S on 1S 15.00  
6p (red) 15.00  
1886; rose; 1p, 1 1/2p, 2p, 3p, 4 1/2p, 9p 3.50  
4p, 6p, 8p, 1S, 1S6p, 2S

### MADEIRA

1868-74; '66 issue Portugal surchd "Madeira"  
Red surcharge, 5r black 25 50  
Black " 5r blk, 120 ble, 240 vio 1.20  
" " 10r ylw, 80 org, 100 lilc 85 75  
" " 20r bistre, 50r grn 25 25  
" " 25r rose 50 25  
1876-80; '71 issue Portugal surcharged.  
10r gn, 50r ble, \* or used, 85c. 15 brn 30 40  
150r blue or yellow, 300r violet  
1880-1; surcharged on 1880 issue Portugal.  
5r blk, used, \$1. 25r grayish 50 70  
1898; type '98 issue Portugal; 2 1/2r grn 2  
5r red, 10r purple 5  
25r grn, 50 ble, \* 10c. 75 bwn, 100 bn 20  
15r bistre 50

Newspaper; '76; srchgd on newspaper  
stps of Portugal. 2 1/2r 15

### MALTA

'60-82; head in 8-sided frame; 1/2p buff 15 40  
1885-1902; various designs.  
1/2p grn, 1p rose 4 2  
2p gray, 4p brown 6 3  
2 1/2p ble, 1p on 2 1/2p 8 3  
4 1/2p blk, 5p red 18 12  
1S violet 40 12  
2S6p olive, 5S rose, 10S slate  
1900; 1f red brown, harbor view 3 3  
1903; King's head; 3p violet & gray 6 6  
1/2p grn, unstd, 2c. 2p mauve & grn 6  
1S gray & vio



### MAURITIUS

1847; similar to cut; "Post office" to left; 1p org, 2 ble  
1848; like cut; 1p org 7.00  
2p blue 20.00  
1858; 1p scarlet 20.00  
2p blue, several vars.



1849 62; brwn or blue 12  
red (no val. shown) 18  
magenta or green 6.00  
Value expressed. 4p, 8p  
6p violet slate 40  
1S vermilion 2.00  
1S green 6.00  
'60-78; 1p lil, 10 red, 1S ble 1.00  
1p bwn, 2p ble, 6 green 15  
1S yellow, 50c on 1S 15  
3p vermln, 9p lilc, 1/2 on 9 50  
4p red, usd 8c 1/2 on 10, 2v 12  
6 lilc, 1p on 4, 38c on 9p 1.50  
2c claret, value surch 10 85



4c on 1p, 8c on 2p, 13c on 3p, 17c on 4p 40  
9p green, 1S green, 1S on 5S, 2R50c on 5S  
1879-94; various designs.  
1 vio, 2 gn 2 2  
2c bwn 18 8.  
4c red 4 2  
4 org, 15 ble 4  
8 ble, 15 bn 8 8.



13c slate 4.50  
1c on 2c, 2 on 4 5  
1c on 16c 6 2c on 38c 25  
16c bwn 12 12 50c green 25 20  
16c on 17c 50 25 38c, 50c, 2R50c



1895-1903; 1c lilc & ble 2 2  
1c gry & blk, 2 lilc & org 2 2  
2c lilac & violet, 3c lilac 2 2  
4c " & grn, 4c lilc & red 3 3  
5c " & vio, 6 grn & rose 5 5  
8c gn & blk, 12 blk & red 8 8  
15 " & org, 18 grn & ble 8 8

3c grn & red, 6c black & red 3  
25c bistre, 25c grn & red, 50c grn & ble 25  
1R blk & red, 2R50c gn & blk, 5R blk & red  
6 on 18c, 12 on 18c \* 9 cts. 4c on 16c  
Postage & Revenue, 50c grn, 2R50c violet  
1898-1902; oblong; "Diamond Jubilee" at  
sides. 36c bwn & ble, 15 or 12 on 36c 25  
1899; male head facing front; 15c ble 12

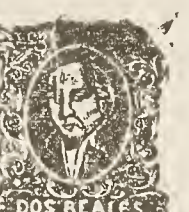
### MECKLENBURG STRELITZ

1864; 1 s.g. rose 1.75 6.00  
2 s.g. ultramarine 70 8.50  
3 s.g. bistre 30 12.00  
Similar; rectangular design.  
1/4 s.g. orange 1.50 30.00  
1/4 s.g. green 1.20 20.00



### MEXICO

'56; surchgd with district name.  
1/2r ble usd 15c. 1/2 buff, 4 rd 65  
1r ylw, 1r grn, 2r green 10  
4r red, yellow 2.50 1.50  
4c ylw, 8r vio, 8r red bwn  
8r green, red brown 4.00 3.50  
Same surcharged Mexico;  
1/2r buff, 1/2 gray, usd \$20. 1 grn, 1 grn 60  
1r ble, usd \$4.50 8r grn, bwn 15.00  
2r pink 30 40  
4r red, ylw, usd \$1.75 4r red, 8 bwn 10.00



'64; 1/2r 20  
1r red 3  
2r blue 5  
4r brown 7  
1P blk 10  
Eagle design.  
1/2r lilac 1.00  
3r blue, used 20c. 2r orange 25 6  
4r green, " 75c. 8r red, 3c bwn



1866  
7c lilc 2.00  
13c ble 80  
25 buff or org 35  
50c grn 80  
1868; 2nd cut:  
6c buff 25  
12c green, 25c ble, pink 10  
50c yellow, used \$1.00. 100c brown 2.00  
2c bwn, 50c ble, pink, 100c bwn, bwn  
1872; same design, sur. "Anotado" Probably  
found only in unused condition.



1872; 1st of above 2 cuts, 6c green 20 40  
12c blue, 25c red 10 10  
50 ylw, 100 lilc, usd \$1.50. 50 ble, no sr 60  
1874-83; last 2 of above cuts and various des.  
4c orange, 50c green, 100c carmine 15 15  
5c brown, 10c black 8 8  
10c orange, 25c blue 4 4  
1879-82; 1st cut  
1c bwn 10 15  
2c vio 18 18  
5c org 5 8  
10c ble 7 10  
10c bwn 12 15  
12c bwn 12 15  
18c org-bwn, 24c prpl, 25c red 10 15  
25c bwn, unstd 35c. 50c grn, no sur 15  
50c yellow, 100c orange 3.00 3.00  
85c violet or 100c black, no surch 35  
1882; 2nd of above 2 cuts; 2c grn 18 18



1882; 2nd of above 2 cuts; 2c grn 18 18

3c carmine, 6c blue 12 12

1884-5; 1c grn, 3c bwn 5 5  
2c grn, 3c grn, 4c grn 6 6  
5c grn, 6c grn, 20c grn 6 6  
10c green, 10c orange 3 3  
5c ble, 6c brwn, 50c green 8 8  
12c gn or bwn, 25 gn, 1P ble 12 12  
4c orange, 2P blue 25 25  
25 ble, 5P, 10P



1886-94; 1c green 2 2  
2c red, 3c lilac or red 3 3  
3c org, 4c org, 6c org 5 5  
4c red, 6c red 5 5  
5c blue, 10c red 2 2  
10c orange, 10c lilac 3 3  
12c lilac, 12c red 25 25



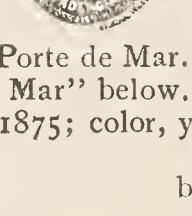
20c vermilion, 25c vermilion 7 7  
20c lilc, 25 lilc, 1c on 2 red, 5P 2va, 10P, 2va



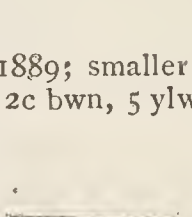
1895-8; various designs. 1c grn 2 2  
2c red 3 3  
3 bwn, 10 lilc 3 3  
4c orange 5 5  
5c blue 1 1  
12 gn, 50prpl 25 25



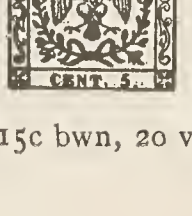
1899-1902;  
1c green 2 2  
2c red 4 3  
3c brwn 5 3  
4c carmine 5 5  
5c blue 6 1  
10c vio & org 3 3



15c vio & red, used 8c. 20c rose & ble 6 6  
50c lilc & blk, 1p ble & blk, 5P red & blk



Official; 1884-90;  
No value, red 5 5  
" " blue or green 4 5  
" " brown 5 4  
" " red orange 3 3  
Regular issues have also been surcharged OFICIAL.



Porte de Mar. Numerals in center. "Porte de Mar" below.  
1875; color, ylw; 10c, 35c, 50c 15 15  
" 25c, 60c, 75, 85, 100c 25 25  
blk; 2c, 10c, 12c, 20c 6 6  
" 25c, 50, 60, 75, 85c 30 30  
" 35c, 100c 40 40  
Numerals larger;  
" 5c, 50c, 100c 12 12  
" 25c, 35c, 60c  
1889; smaller stamp; 10c red 6 6  
2c bwn, 5 ylw, 25 ble, 50 grn, 100 vio 4 4

### MODENA

1852-7; 5c green 25 25  
9c violet 12 12  
10c rose, 40c blue 40 50  
10c violet 60 1.00  
15c yellow, 25c buff 25 25  
Arms in center; 5 grn 1.00 3.00  
10c black 1.00 5.00  
15c bwn, 20 vio, 40 bwn, 80 org 75 75



(Continued from previous page.)

societies hold their annual conventions in August some action will be taken in the matter. The usefulness of such a button would be in picking out a collector from the crowd on the street, and perhaps swapping some stamps with him; also as a scheme of advertising the pursuit.

Another probable topic for debate among the society men will be along the line of a suitable stamp exhibit for the St. Louis fair. As on former occasions, the postal museum at Washington would be called upon to help make the exhibit an interesting one. A good display of stamps would add much to the attractiveness of the fair, but it is time to be doing something.

A dealer is asking his customers the pertinent question, through the advertising columns of some stamp paper, who are mere "gap fillers" and who are stamp collectors. Those readers of the *Realm* who collect everything in the shape of a gummed label, regardless of its market value, would do well to put the question to themselves.

#### THE NEW STAMP CATALOGUE.

There is no longer any doubt about it; some time next fall a new 10-cent catalogue will appear to supply the great demand for a low-priced book of this kind. To ascertain beforehand how much support we should get from outside dealers through wholesale orders a circular letter, extracts from which we give below, was issued about three weeks ago. It read in substance as follows:

Boston, May, 1903  
Mr. Stamp Dealer,  
Dear sir:

Next fall we propose to issue a catalogue of the postage stamps of all nations, to be called "THE COLLECTOR'S OWN CATALOGUE," which is to be retailed at ten cents per copy and no more or less during the years of issue, 1903 and 1904.

The catalogue will be profusely illustrated with new cuts of the various postal issues, will contain prices, wherever possible, for used (and unused) specimens of all the straight issues, regardless of minor varieties due to watermarks, shades, etc., and be so arranged that the youngest collector will no longer have any difficulty or become discouraged in pricing or classifying his stamps.

Catalogue prices will follow closely the prices given in the standard American and European catalogues, except in certain cases where low-priced stamps have been slightly raised to the value given them several years ago before the disastrous drop in prices took place which threatened to kill the business.

By omitting envelope stamps (except U. S.) and almost all minor varieties, we shall be able to condense the catalogue, by our new system of classification, either into some 50 pages of about twice the size of the Standard page, or 100 pages of pocket size. The cover will be of attractive design. The weight of the catalogue will be less than two ounces, so that the postage shall not exceed one cent.

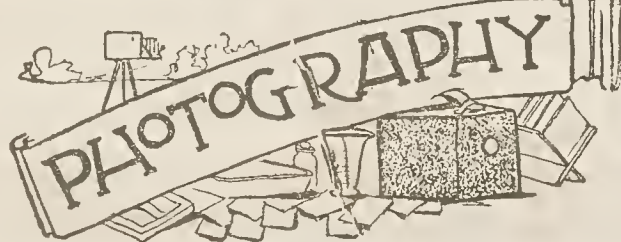
The catalogue will be printed from new plates and the latest issues will be included. We predict an enormous sale of the first edition, and the larger the circulation, the greater will be the interest taken in stamp collecting the coming season. A catalogue such as this, and in price, within the reach of every collector, is sure to have a stimulating effect upon the pursuit beyond the most sanguine hopes of those who may help to circulate it.

Yours truly,  
A. Bullard & Co.

The response to this circular was very encouraging, to say the least. Almost all the larger dealers whom we had mailed a copy of the circular to, agreed to handle the book. Some thought they could use several thousand a year. Others who were more skeptical ordered a hundred or so copies to start with. The success of the book is assured, and we predict heavy sales the first week the book is out.

#### Unique Mailing Device.

A French postal clerk has evolved a simple apparatus for dispensing with the postage stamp and enabling any one to get his letter franked after office hours. The apparatus can be affixed to any pillar box, a coin is dropped into a slot, the corner of the letter is inserted and the machine stamps the envelope with the amount paid. All you have to do, then, is to drop the letter into the pillar box for collection,



Professor Arthur W. Goodspeed of the University of Pennsylvania has discovered a new ray which, emanating from the human body, is of sufficient intensity to make photographs. He discovered the ray while making experimental researches with a Crookes tube. While using an iron tripod stand with a ring shaped top as a support for a photographic plate he noticed that the plate, when exposed to the X rays, seemed to be influenced by the iron ring below. A series of experiments resulted in the conclusion that with light emanating from his hand Professor Goodspeed was able to photograph a ring, a cent and a piece of aluminium.

He first placed the Crookes focus tube in operation within its light proof black box, which was put in such a position that the platinum plate directed the rays upward. Five pieces of lead, which is impervious to the X ray, were then piled on one another on top of the box and upon the top of the lead was placed a photographic plate inclosed in a light proof box. Upon the top of the latter box was a cylinder of brass with a small aperture in its side. Within the cylinder and resting upon the top of the box containing the plate were placed the ring, a cent and a piece of aluminium. The top of the cylinder was sealed with two heavy pieces of zinc.

The room was in complete darkness and Professor Goodspeed then held his hand three inches from the aperture of the box for three minutes. The plate was taken from its box developed, and radiographs of the objects were found upon it.

#### Fixing Spoiled Dry Plates.

Spoiled dry plates, which have not been developed or fixed, can be utilized by immersing for five or six minutes in a bath of distilled water, ten ounces; chromic acid, thirty grains; bromide of potassium, sixty grains.

This operation should be conducted in the dark, the plate should be washed for twenty minutes in the dark and finally dried in the dark. The plates thus treated are very slow, but are suitable for transparencies, which are made by constant printing. These plates are developed and fixed in the usual manner.

#### VACCINATING PLANTS.

##### Inoculation Against Parasites Proves Successful.

Science has not contented itself with hunting out lymph and virus which will give immunity from disease to humanity alone. It has turned its attention to inoculation for the vegetable kingdom as well. Remarkably interesting experiments have been carried on by French and English scientists, among them M. Beauverie and Professor Marshall Ward.

They are working along the line of demonstrating the feasibility of treating plant diseases in a way similar to that in which animals are rendered immune to attacks of illness. Many successful results have rewarded their investigations.

Cuttings of begonia, for example, were allowed to grow in soil which had been impregnated with a species of fungus which is an attenuated form of a destructive parasite to plants rejoicing in the Latinesque name of Botrytis cinerea. After inoculation, or rather impregnation by absorption, the begonias were placed in a separate bed and the hordes of Philistines in the shape of scores of the parasites

were let loose upon them.

They resisted the attacks perfectly, showing the beneficial results of the new kind of vaccination for plants.

#### A NEW HOUSE CLEANER.

**It Sucks Up the Dirt From the Floor and Walls.**

Advices received at the state department from Consul Mahin at Nottingham, England, are to the effect that a new house cleaning device is being exhibited in that city.

The apparatus consists of a machine composed of a two to four horse power motor (oil or electric) and an air pump, serving to maintain an "exhaust" of several pounds to the square inch. The machine can be carried on wheels or be made stationary. To it is attached a filter-the-dust receptacle—a tightly closed metallic vessel with a capacity of a peck or more.

A one and one-half inch rubber hose, which may be of any desired length up to 700 feet, is attached to the filter. At the end of the hose is a "cleaner" or "renovator," which is a tube flattened out at the end into a kind of long snout. By rubbing this over the carpet or up and down the cloth covering of settees or chairs it not only sucks the dust from the surface, but also from underneath it. Walls also may be cleaned of dust, the cleaner being a brush of horseshoe shape. No dust is raised in a room, and it can be operated by inexperienced men. These machines are at present being leased and in no case sold.

#### Arsenic From Gold Ore.

The companies in the Hastings county (province of Ontario, Canada) gold fields have successfully introduced the bromo cyanogen process in treating the previously refractory mispickel, as the ore in which arsenic is contained is called, and are now turning out eighty tons of arsenic a month. The arsenic can be placed on the cars at Marmora, in Hastings county, at a cost of \$20 a ton. It sells at \$70 and frequently as high as \$90 a ton. This arsenical ore also carries from \$4 to \$60 worth of gold in each ton, which is a handsome profit in itself.

#### Some Very Useful Hints From the Atlanta Constitution.

A writer in the Atlanta Constitution recently gave some very useful hints in the way of practical mechanics. He said in part:

In putting on belting it should be stretched as tightly as possible, and with wide belts this can be done best by the use of clamps secured firmly to each end of the belt and drawn together by clamp rods running parallel with and outside the edges of the belt. There is no danger of breaking, as a belt six inches wide and three ply thick will stand a direct strain of 5,000 pounds, and others in proportion.

A boiler when about to be laid up for a season should be thoroughly cleaned on the inside, filled with water with steam on, so as to be full of hot water that has been boiled up to the safety valve. The flues and fire surface of the boiler should then be cleaned; ashes and soot removed from every part where such lodge. Then close fire doors and ash pit and put a cap on the smokestack. With this treatment laid up boilers do not rust inside or outside. It is the moist air drawn through a laid up boiler that does damage by rust.

To keep machinery from rusting dissolve one ounce of camphor in one pound of melted lard; remove the scum; mix as much black lead with the lard and camphor as will give it an iron color; clean the machinery well; smear with the mixture; after twenty-four hours rub off, clean and polish with a soft cloth.

#### CHEAP SETS Etc.

Salvador, 1890, unused, complete, . . . . .33  
Salvador, 1891, unused complete . . . . .33  
Spain 1889, complete, used, (Some are punched) . . . . .10  
Corea unused, complete, 1885-6 . . . . .25  
Corea unused, complete, 1895 . . . . .15  
Porto Rico Postal Cards, 8 var. unused . . . . .15  
Salvador Postal Cards, 1890 complete, unused, including double cards 4 varieties . . . . .10  
Same, 1891, complete, 5 var. . . . .10  
1000 Continentals . . . . .15  
1000 Mixed U. S. stamps . . . . .15  
Porto Rico, 1898, 4 mills, unused, . . .14  
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Liberia triangular, 2 colors (see cut) 10  
\$3 lake U.S. rev

rare, for . . . . .30  
Dutch Indies 1900 provisional 6 different 20  
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All genuine and in good condition.

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5c Inland Exch, imperf. 07  
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King's Head Packet; 10 var. King's heads from Strait Settlements, Transvaal, &c, 10 Guatemala 1902, 4 pretty stps, cat. 14c, 07 Dime Album, holds 480 stps, 5c. Same, board covers, for 600 stps, 10c. Imperial, board " 3500 " 30c. International, " " illust., \$1.50. 1903 Standard Cata, 58 50 Blank Sheets 10c. 100 for 19 10 " Approval Books 15c. " 90 1000 Faultless Hinges, 8c. 5000 for 30 Wholesale List for Dealers. PRICE LIST FREE. New Buying List, book form, complete, 10c. Postage, 2c extra on all orders. TOLEDO STAMP CO., Toledo, Ohio.

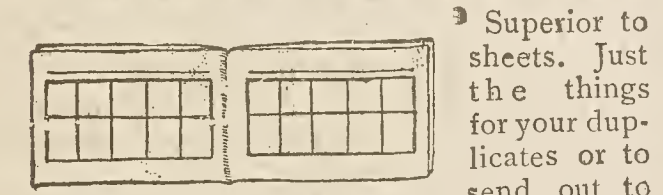


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Everything Postpaid.  
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100 pounds fragments Indian pottery at 25 c per pound.  
Round pieces Pottery, supposed to have been used for vessel stoppers, each 5c.  
100 Civil War Bullets gathered from battlefield of Kenesaw Mountain, at 3c to 5c each.  
Old gun flints found near Revolutionary fort, each 10c.  
10,000 mixed tobacco tags at 65c per 1000.  
2000 philatelic magazines at 1c each, just as they come.  
**PHILATELIC SUPPLIES.**  
Blank Approval Books at 8c and 10c per dozen.  
Blank Approval Sheets at 3c per dozen.  
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**Joel H. DuBose**  
Perfect Hinges at 10c per 1000, 25c for 3000.  
Attractive Glass Cup Watermark Detector, each 40c.  
Stylograph Glass Pens, 5c, 10c and 15c each.  
Lauchlin Fountain Pens, world wide reputation, at 75c to \$3 each.  
Scott's Standard Stamp Catalogues at 58c each.  
Scott's Albums at 35c to \$10 each.  
A nice selection of stamps at 1/2 catalogue. Job lots at 1-3 to 1-5.  
I also have for sale or exchange, the following valuable relics:  
1 Old English piano made in London in 1807.  
1 Pair gentleman's buckskin pants made in Richmond, Va., in 1758.  
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**Huguenot, Georgia**

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16 varieties Hawaiian	60
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These five packets are very good value and guaranteed to catalogue more than twice the price asked.  
Please remember that we guarantee entire satisfaction or we will refund your money.

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5 var. So. Australia 05	10 var. Victoria 12
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10 varieties West Australia, swan issue	15
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